

=====

Sequence Listing was accepted.

If you need help call the Patent Electronic Business Center at (866)
217-9197 (toll free).

Reviewer: markspencer

Timestamp: [year=2008; month=7; day=14; hr=10; min=25; sec=0; ms=420;]

=====

Application No: 10714887 Version No: 2.0

Input Set:

Output Set:

Started: 2008-06-11 22:45:35.243
Finished: 2008-06-11 22:45:52.570
Elapsed: 0 hr(s) 0 min(s) 17 sec(s) 327 ms
Total Warnings: 111
Total Errors: 0
No. of SeqIDs Defined: 704
Actual SeqID Count: 704

Error code	Error Description
W 402	Undefined organism found in <213> in SEQ ID (69)
W 402	Undefined organism found in <213> in SEQ ID (70)
W 402	Undefined organism found in <213> in SEQ ID (71)
W 402	Undefined organism found in <213> in SEQ ID (72)
W 402	Undefined organism found in <213> in SEQ ID (73)
W 402	Undefined organism found in <213> in SEQ ID (74)
W 402	Undefined organism found in <213> in SEQ ID (75)
W 402	Undefined organism found in <213> in SEQ ID (76)
W 402	Undefined organism found in <213> in SEQ ID (89)
W 402	Undefined organism found in <213> in SEQ ID (90)
W 402	Undefined organism found in <213> in SEQ ID (91)
W 402	Undefined organism found in <213> in SEQ ID (92)
W 402	Undefined organism found in <213> in SEQ ID (97)
W 402	Undefined organism found in <213> in SEQ ID (98)
W 402	Undefined organism found in <213> in SEQ ID (99)
W 402	Undefined organism found in <213> in SEQ ID (100)
W 402	Undefined organism found in <213> in SEQ ID (101)
W 402	Undefined organism found in <213> in SEQ ID (102)
W 402	Undefined organism found in <213> in SEQ ID (105)
W 402	Undefined organism found in <213> in SEQ ID (106)

Input Set:

Output Set:

Started: 2008-06-11 22:45:35.243
Finished: 2008-06-11 22:45:52.570
Elapsed: 0 hr(s) 0 min(s) 17 sec(s) 327 ms
Total Warnings: 111
Total Errors: 0
No. of SeqIDs Defined: 704
Actual SeqID Count: 704

Error code	Error Description
	This error has occurred more than 20 times, will not be displayed
W 213	Artificial or Unknown found in <213> in SEQ ID (429)
W 213	Artificial or Unknown found in <213> in SEQ ID (430)

SEQUENCE LISTING

<110> Mendel Biotechnology, Inc.
HEARD, Jacqueline
RIECHMANN, Jose Luis
CREELMAN, Robert
RATCLIFFE, Oliver
CANALES, Roger
REPETTI, Peter
KUMIMOTO, Roderick W
GUTTERSON, Neal
REUBER, T. Lynne
PINEDA, Omaira
SHERMAN, Bradley K

<120> PLANT TRANSCRIPTIONAL REGULATORS OF DROUGHT STRESS

<130> MBI0058-CIP

<140> 10714887

<141> 2003-11-13

<150> 10/412,699

<151> 2003-04-10

<150> 09/506,720

<151> 2000-02-17

<150> 60/135,134

<151> 1999-05-20

<150> 09/394,519

<151> 1999-09-13

<150> 09/533,392

<151> 2000-03-22

<150> 09/533,029

<151> 2000-03-22

<150> 09/532,591

<151> 2000-03-22

<150> 09/533,030

<151> 2000-03-22

<150> 60/125,814

<151> 1999-03-23

<150> 09/713,994

<151> 2000-11-16

<150> 60/166,228

<151> 1999-11-17

<150> 60/197,899

<151> 2000-04-17

<150> 60/227,439

<151> 2000-08-22

<150> 10/456,882

<151> 2003-06-06

<150> 09/810,836

<151> 2001-03-16

<150> 10/421,138

<151> 2003-04-23

<150> 09/823,676

<151> 2001-03-30

<150> 09/996,140

<151> 2001-11-26

<150> 09/934,455

<151> 2001-08-22

<150> 10/112,887

<151> 2002-03-18

<150> 10/286,264

<151> 2002-11-01

<150> 10/225,066

<151> 2002-08-09

<150> 10/225,067

<151> 2002-08-09

<150> 10/225,068

<151> 2002-08-09

<150> 60/310,847

<151> 2001-08-09

<150> 60/338,692

<151> 2001-12-11

<150> 60/336,049

<151> 2001-11-19

<150> 10/374,780

<151> 2003-02-25

<150> 09/837,944

<151> 2001-04-18

<150> 10/171,468

<151> 2002-06-14

<150> 10/666,642

<151> 2003-09-18

<150> 60/434,166

<151> 2002-12-17

<150> 60/411,837

<151> 2002-09-18

<150> 60/465,809

<151> 2003-04-24

<160> 704

<170> PatentIn version 3.2

<210> 1

<211> 785

<212> DNA

<213> Arabidopsis thaliana

<220>

<223> G47 reference sequence; clade identifier

<400> 1

cttcttcttc acatcgatca tcatacaaca acaaaaaatg gattacagag aatccaccgg	60
tgaaagtcag tcaaagtaca aaggaatccg tcgtcggaaa tggggcaa at gggtatcaga	120
gattagagtt ccgggaactc gtgaccgtct ctggttaggt tcattctcaa cagcagaagg	180
tgccgccgta gcacacgacg ttgctttctt ctgtttacac caacctgatt ctttagaatc	240
tctcaatttc cctcatttgc ttaatccttc actcgtttcc agaacttctc cgagatctat	300
ccagcaagct gcttctaacg ccggcatggc cattgacgcc ggaatcgtcc acagtaccag	360
cgtgaactct ggatgcggag atacgacgac gtattacgag aatggagctg atcaagtgga	420
gccgttgaat atttcagtgt atgattatct gggcggccac gatcacgttt gatttatctc	480
gacggtcatg atcacgtttg atcttctttt gagtaagatt ttgtaccata atcaaacag	540
gtgtggtgct aaaatcttac tcaaaacaag attaggtacc acagagaaac aatcaaatgg	600
ttgtgaatat acattataag gttttgatta atgtttgttt cactgattta gtgaagtttg	660
gtccattgta taaaatcta ttcaagaaac ctagcgcgag atcatgtttc gtgattgaag	720
attgagattt ttaagtattc gtaatatatt tgtaaaatac aaataaaaaa aaaaaaaaaa	780
aaaaa	785

<210> 2

<211> 144

<212> PRT

<213> Arabidopsis thaliana

<220>

<223> G47 polypeptide reference sequence; clade identifier

<400> 2

Met Asp Tyr Arg Glu Ser Thr Gly Glu Ser Gln Ser Lys Tyr Lys Gly
1 5 10 15

Ile Arg Arg Arg Lys Trp Gly Lys Trp Val Ser Glu Ile Arg Val Pro
20 25 30

Gly Thr Arg Asp Arg Leu Trp Leu Gly Ser Phe Ser Thr Ala Glu Gly
35 40 45

Ala Ala Val Ala His Asp Val Ala Phe Phe Cys Leu His Gln Pro Asp
50 55 60

Ser Leu Glu Ser Leu Asn Phe Pro His Leu Leu Asn Pro Ser Leu Val
65 70 75 80

Ser Arg Thr Ser Pro Arg Ser Ile Gln Gln Ala Ala Ser Asn Ala Gly
85 90 95

Met Ala Ile Asp Ala Gly Ile Val His Ser Thr Ser Val Asn Ser Gly
100 105 110

Cys Gly Asp Thr Thr Thr Tyr Tyr Glu Asn Gly Ala Asp Gln Val Glu
115 120 125

Pro Leu Asn Ile Ser Val Tyr Asp Tyr Leu Gly Gly His Asp His Val
130 135 140

<210> 3

<211> 1449

<212> DNA

<213> Arabidopsis thaliana

<220>

<223> G922 reference sequence; clade identifier

<400> 3

atggtggcta tgtttcaaga agataatgga acatcttctg tagcttcac accacttcaa 60

gtcttctcaa ctatgtcact caacagaccg actctcctcg cttcttcac tccgtttcat 120

tgtctcaaag atctcaaacc agaggagcgt ggtctctact taatccacct cttgctaact 180

tgtgccaacc acgtggcttc aggtagcctc caaaacgcta acgcagcgct cgagcagctc	240
tctcacctcg cttctcctga cggcgacacg atgcagcgaa tcgctgctta cttcaccgaa	300
gcgcttgcta acagaatcct taagtcttgg cctggctctt acaaggctct taacgcaact	360
cagacaagaa ctaacaatgt ctctgaggag attcatgtta gaagactctt ctttgagatg	420
ttcccgatac tcaaagtctc ttacttgctc actaatcgag ctatactcga ggctatggaa	480
ggagagaaga tggttcatgt gattgatctc gatgcttctg agccagctca atggcttgct	540
ttgcttcaag cttttaactc taggcctgaa ggtccacctc atttgagaat cactggtggt	600
catcaccaga aggaagtgtc tgaacaaatg gctcatagac tcattgagga agcagagaaa	660
ctcgatatcc cgtttcagtt taatcccggt gtgagtaggt tagactgttt aaatgtagaa	720
cagttgcggg ttaaaacagg agaggcctta gccgttagct cggttcttca attgcatacc	780
ttcttggcct ctgatgatga tctcatgaga aagaactgcg ctttacgggt tcagaacaac	840
cctagtggag ttgacttgca gagagttcta atgatgagcc atggctctgc agctgaggca	900
cgtgagaatg atatgagtaa caacaatggg tatagcccta gcggtgactc ggctcatct	960
ttgcctttac caagttcagg aaggactgat agcttcctca atgctatttg gggtttgtct	1020
ccaaaggtea tgggtggtcac tgagcaagac tcagaccaca acggtccac actaatggag	1080
aggctattag aatcacttta cacctacgca gcattgtttg attgcttgga aacaaaagtt	1140
ccaagaacgt ctcaagatag gatcaaagtg gagaagatgc tcttcgggga ggagatcaag	1200
aacatcatat cctgcgaggg atttgagaga agagaaagac acgagaagct tgagaaatgg	1260
agccagagga tcgatttggc tggttttggg aatgttctc ttagctatta tgcgatgttg	1320
caggctagga gattgcttca aggggtcggg tttgatgggt atagaatcaa ggaagagagc	1380
gggtgcgag taatttgctg gcaagatcga cctctatact cggtatcagc ttggagatgc	1440
aggaagtga	1449

<210> 4

<211> 482

<212> PRT

<213> Arabidopsis thaliana

<220>

<223> G922 polypeptide reference sequence; clade identifier

<400> 4

Met Val Ala Met Phe Gln Glu Asp Asn Gly Thr Ser Ser Val Ala Ser

1

5

10

15

Ser Pro Leu Gln Val Phe Ser Thr Met Ser Leu Asn Arg Pro Thr Leu
20 25 30

Leu Ala Ser Ser Ser Pro Phe His Cys Leu Lys Asp Leu Lys Pro Glu
35 40 45

Glu Arg Gly Leu Tyr Leu Ile His Leu Leu Leu Thr Cys Ala Asn His
50 55 60

Val Ala Ser Gly Ser Leu Gln Asn Ala Asn Ala Ala Leu Glu Gln Leu
65 70 75 80

Ser His Leu Ala Ser Pro Asp Gly Asp Thr Met Gln Arg Ile Ala Ala
85 90 95

Tyr Phe Thr Glu Ala Leu Ala Asn Arg Ile Leu Lys Ser Trp Pro Gly
100 105 110

Leu Tyr Lys Ala Leu Asn Ala Thr Gln Thr Arg Thr Asn Asn Val Ser
115 120 125

Glu Glu Ile His Val Arg Arg Leu Phe Phe Glu Met Phe Pro Ile Leu
130 135 140

Lys Val Ser Tyr Leu Leu Thr Asn Arg Ala Ile Leu Glu Ala Met Glu
145 150 155 160

Gly Glu Lys Met Val His Val Ile Asp Leu Asp Ala Ser Glu Pro Ala
165 170 175

Gln Trp Leu Ala Leu Leu Gln Ala Phe Asn Ser Arg Pro Glu Gly Pro
180 185 190

Pro His Leu Arg Ile Thr Gly Val His His Gln Lys Glu Val Leu Glu
195 200 205

Gln Met Ala His Arg Leu Ile Glu Glu Ala Glu Lys Leu Asp Ile Pro
210 215 220

Phe Gln Phe Asn Pro Val Val Ser Arg Leu Asp Cys Leu Asn Val Glu
225 230 235 240

Gln Leu Arg Val Lys Thr Gly Glu Ala Leu Ala Val Ser Ser Val Leu
 245 250 255

Gln Leu His Thr Phe Leu Ala Ser Asp Asp Asp Leu Met Arg Lys Asn
 260 265 270

Cys Ala Leu Arg Phe Gln Asn Asn Pro Ser Gly Val Asp Leu Gln Arg
 275 280 285

Val Leu Met Met Ser His Gly Ser Ala Ala Glu Ala Arg Glu Asn Asp
 290 295 300

Met Ser Asn Asn Asn Gly Tyr Ser Pro Ser Gly Asp Ser Ala Ser Ser
 305 310 315 320

Leu Pro Leu Pro Ser Ser Gly Arg Thr Asp Ser Phe Leu Asn Ala Ile
 325 330 335

Trp Gly Leu Ser Pro Lys Val Met Val Val Thr Glu Gln Asp Ser Asp
 340 345 350

His Asn Gly Ser Thr Leu Met Glu Arg Leu Leu Glu Ser Leu Tyr Thr
 355 360 365

Tyr Ala Ala Leu Phe Asp Cys Leu Glu Thr Lys Val Pro Arg Thr Ser
 370 375 380

Gln Asp Arg Ile Lys Val Glu Lys Met Leu Phe Gly Glu Glu Ile Lys
 385 390 395 400

Asn Ile Ile Ser Cys Glu Gly Phe Glu Arg Arg Glu Arg His Glu Lys
 405 410 415

Leu Glu Lys Trp Ser Gln Arg Ile Asp Leu Ala Gly Phe Gly Asn Val
 420 425 430

Pro Leu Ser Tyr Tyr Ala Met Leu Gln Ala Arg Arg Leu Leu Gln Gly
 435 440 445

Cys Gly Phe Asp Gly Tyr Arg Ile Lys Glu Glu Ser Gly Cys Ala Val
 450 455 460

Ile Cys Trp Gln Asp Arg Pro Leu Tyr Ser Val Ser Ala Trp Arg Cys
465 470 475 480

Arg Lys

<210> 5
<211> 585
<212> DNA
<213> Arabidopsis thaliana

<220>
<223> G1274 reference sequence; clade identifier

<400> 5
atgaatatct ctcaaaaccc tagccctaatt ttacgtact tctccgatga aaactttatt 60
aatccgttta tggataacaa cgatttctca aatttgatgt tctttgacat agatgaagga 120
ggtaacaatg gattaatcga ggaagagatc tcatctccga caagcatcgt ttcgtcggag 180
acatttaccg gggaaagcgg cggatccggc agcgcaacaa cgttgagtaa aaaggaatca 240
actaatagag gaagtaaaga gagtgatcag acgaaggaga cgggtcatcg agttgcattt 300
agaacgagat cgaagattga tgtgatggat gatggtttta aatggaggaa gtatggcaag 360
aaatctgtca aaaacaacat taacaagagg aattactaca aatgctcaag tgaaggttgc 420
tcgggtgaaga agagggtaga gagagatggg gacgatgcag cttatgtaat tacaacatat 480
gaaggagtcc ataaccatga gagtctctct aatgtctatt acaatgaaat gggtttatct 540
tatgatcatg ataactggaa ccaacactct cttcttcgat cttaa 585

<210> 6
<211> 194
<212> PRT
<213> Arabidopsis thaliana

<220>
<223> G1274 polypeptide reference sequence; clade identifier

<400> 6

Met Asn Ile Ser Gln Asn Pro Ser Pro Asn Phe Thr Tyr Phe Ser Asp
1 5 10 15

Glu Asn Phe Ile Asn Pro Phe Met Asp Asn Asn Asp Phe Ser Asn Leu
20 25 30

Met Phe Phe Asp Ile Asp Glu Gly Gly Asn Asn Gly Leu Ile Glu Glu

35

40

45

Glu Ile Ser Ser Pro Thr Ser Ile Val Ser Ser Glu Thr Phe Thr Gly
 50 55 60

Glu Ser Gly Gly Ser Gly Ser Ala Thr Thr Leu Ser Lys Lys Glu Ser
 65 70 75 80

Thr Asn Arg Gly Ser Lys Glu Ser Asp Gln Thr Lys Glu Thr Gly His
 85 90 95

Arg Val Ala Phe Arg Thr Arg Ser Lys Ile Asp Val Met Asp Asp Gly
 100 105 110

Phe Lys Trp Arg Lys Tyr Gly Lys Lys Ser Val Lys Asn Asn Ile Asn
 115 120 125

Lys Arg Asn Tyr Tyr Lys Cys Ser Ser Glu Gly Cys Ser Val Lys Lys
 130 135 140

Arg Val Glu Arg Asp Gly Asp Asp Ala Ala Tyr Val Ile Thr Thr Tyr
 145 150 155 160

Glu Gly Val His Asn His Glu Ser Leu Ser Asn Val Tyr Tyr Asn Glu
 165 170 175

Met Val Leu Ser Tyr Asp His Asp Asn Trp Asn Gln His Ser Leu Leu
 180 185 190

Arg Ser

<210> 7

<211> 696

<212> DNA

<213> Arabidopsis thaliana

<220>

<223> G1792 reference sequence; clade identifier

<400> 7

aatccataga tctcttatta aataacagtg ctgaccaagc tcttaciaaag caaaccaatc 60

tagaacacca aagttaatgg agagctcaaa caggagcagc aacaaccaat cacaagatga 120

caagcaagct cgtttccggg gagttcgaag aaggccttgg ggaaagtttg cagcagagat 180

```

tcgagacccg tcgagaaacg gtgcccgctct ttggctcggg acatttgaga ccgctgagga      240
ggcagcaagg gcttatgacc gagcagcctt taaccttagg ggtcatctcg ctatactcaa      300
cttcacctaat gagtattatc cacgtatgga cgactactcg cttcgccctc cttatgcttc      360
ttctttcttcg tcgtcgtcat cgggttcaac ttctactaat gtgagtcgac aaaaccaaag      420
agaagttttc gagtttgagt atttggacga taaggttctt gaagaacttc ttgattcaga      480
agaaaggaag agataatcac gattagtttt gttttgatat tttatgtggc actgttgtgg      540
ctacctacgt gcattatgtg catgtatagg tcgcttgatt agtactttat aacatgcatg      600
ccacgaccat aaattgtaag agaagacgta ctttgcgttt tcatgaaata tgaatgttag      660
atggtttgag tacaaaaaaaa aaaaaaaaaa aaaaaa                                696

```

<210> 8

<211> 139

<212> PRT

<213> Arabidopsis thaliana

<220>

<223> G1792 polypeptide reference sequence; clade identifier

<400> 8

```

Met Glu Ser Ser Asn Arg Ser Ser Asn Asn Gln Ser Gln Asp Asp Lys
1              5              10              15

```

```

Gln Ala Arg Phe Arg Gly Val Arg Arg Arg Pro Trp Gly Lys Phe Ala
          20              25              30

```

```

Ala Glu Ile Arg Asp Pro Ser Arg Asn Gly Ala Arg Leu Trp Leu Gly
          35              40              45

```

```

Thr Phe Glu Thr Ala Glu Glu Ala Ala Arg Ala Tyr Asp Arg Ala Ala
          50              55              60

```

```

Phe Asn Leu Arg Gly His Leu Ala Ile Leu Asn Phe Pro Asn Glu Tyr
65              70              75              80

```

```

Tyr Pro Arg Met Asp Asp Tyr Ser Leu Arg Pro Pro Tyr Ala Ser Ser
          85              90              95

```

```

Ser Ser Ser Ser Ser Ser Gly Ser Thr Ser Thr Asn Val Ser Arg Gln
          100             105             110

```

Asn Gln Arg Glu Val Phe Glu Phe Glu Tyr Leu Asp Asp Lys Val Leu
115 120 125

Glu Glu Leu Leu Asp Ser Glu Glu Arg Lys Arg
130 135

<210> 9
<211> 1029
<212> DNA
<213> Arabidopsis thaliana

<220>
<223> G2053 reference sequence; clade identifier

<400> 9
atggagaatc cgggtgggttt aagattccgt ccgaccgaca aggagatcgt cgtcgattac 60
ctccgaccaa aaaactccga tagggacacg agtcatgttg atcgagtcac tagcacagtc 120
actatccgta gtttcgaccc ttgggagtta ccttgccagt ctaggatcaa actgaaagat 180
gagtcttggg gtttcttcag ccctaaggag aacaaatatg gcagaggtga tcaacaaatt 240
agaaaaacga aatctgggta ctggaagatt actggcaaac caaagcctat cttgcgtaac 300
cgccaagaga tcggtgagaa aaagggtttg atgttttaca tgagtaagga acttggtgga 360
tccaaatccg actgggttat gcacgagtac catgctttct ctctactca gatgatgatg 420
acatatataa tatgtaaagt tatgtttaag ggtgacgtga gagagatttc ttcttcttct 480
gcttcttatg gtagtgaaat tgagcagagt cgtgactctt taatccctct tcttgatgaac 540
gattctgagg aagaagctca aatcgaggat gctataccaa tagaggaatg ggaaacatgg 600
ttgactgatg atggtgttga tgagcaggtg aatcatatta tgaatatgaa agatgatcgc 660
aacaaccaca ggctcaaaa gccattgact ggtgtcttga ttgacgatag tagtgatgat 720
gatgatgatt ctgatttgct atctccaaca acaaattcta ttgaaaattc gagcacttgt 780
gatagttttg gtagctcaga ccaaataaac ttagtgtcac taactcaaga ggtgagccaa 840
gctctgataa ccagtattga tacacccgag aagattaaga gtccttatga tgatgcacaa 900
gggactgggg ctggagggca aaaattgggt caagagactc gagagaagaa acgagctggg 960
ttctttcaca ggatgatata aatattcgtc aagaaaattc accaatgttc ttctatctca 1020
agaacataa 1029

<210> 10
<211> 342

<212> PRT

<213> Arabidopsis thaliana

<220>

<223> G2053 polypeptide reference sequence; clade identifier

<400> 10

Met Glu Asn Pro Val Gly Leu Arg Phe Arg Pro Thr Asp Lys Glu Ile
1 5 10 15

Val Val Asp Tyr Leu Arg Pro Lys Asn Ser Asp Arg Asp Thr Ser His
20 25 30

Val Asp Arg Val Ile Ser Thr Val Thr Ile Arg Ser Phe Asp Pro Trp
35 40 45

Glu Leu Pro Cys Gln Ser Arg Ile Lys Leu Lys Asp Glu Ser Trp Cys
50 55 60

Phe Phe Ser Pro Lys Glu Asn Lys Tyr Gly Arg Gly Asp Gln Gln Ile
65 70 75 80

Arg Lys Thr Lys Ser Gly Tyr Trp Lys Ile Thr Gly Lys Pro Lys Pro
85 90 95

Ile Leu Arg Asn Arg Gln Glu Ile Gly Glu Lys Lys Val Leu Met Phe
100 105 110

Tyr Met Ser Lys Glu Leu Gly Gly Ser Lys Ser Asp Trp Val Met His
115 120 125

Glu Tyr His Ala Phe Ser Pro Thr Gln Met Met Met Thr Tyr Thr Ile
130 135 140

Cys Lys Val Met Phe Lys Gly Asp Val Arg Glu Ile Ser Ser Ser Ser
145 150 155 160

Ala Ser Tyr Gly Ser Glu Ile Glu Gln Ser Arg Asp Ser Leu Ile Pro
165 170 175

Leu Leu Val Asn Asp Ser Glu Glu Glu Ala Gln Ile Glu Asp Ala Ile
180 185 190

Pro Ile Glu Glu Trp Glu Thr Trp Leu Thr Asp Asp Gly Val Asp Glu

195

200

205

Gln Val Asn His Ile Met Asn Met Lys A